En bloc resection of carcinoid tumor by a hybrid endoscopic submucosal dissection technique

Rectal carcinoids are rare tumors, most of which are diagnosed incidentally during routine colonoscopy. Unfortunately, endoscopists tend to attempt resection using traditional resection methods, such as snare, which often results in incomplete resection [1–2]. The endoscopic submucosal dissection (ESD) method has recently been proposed as a valuable endoscopic treatment for rectal carcinoids, because it provides a higher en bloc resection rate than conventional endoscopic mucosal resection (EMR), enabling accurate pathologic diagnosis and potentially curative treatment [3–5].

A 66-year-old woman was evaluated by upper and lower gastrointestinal endoscopies in 2015 for epigastralgia without other accompanying symptoms. During colonoscopy, an 8-mm rectal polyp with a preserved mucosal pattern was found about 3 cm proximally to the dentate line (▶Fig. 1a). Pathological assessment reported a well-differentiated carcinoid tumor (G1), based on a mitosis count of 1 per high-power field and Ki67 staining of less than 2%. Abdominal and pelvic computed tomography (CT) scans and the level of 5-hydroxyindoleacetic acid were unremarkable. No endosonography was performed as part of the staging because locoregional staging in carcinoids less than 1 cm has low sensitivity and resection serves as both a diagnostic and therapeutic procedure.

The lesion was resected using the ESD technique (▶Video 1). Resection margins were marked using a 2.5-mm FlushKnife, ball type (▶Fig. 1b). We performed careful full-thickness wall sectioning, preserving the previously marked margins. After completing sectioning of the perimeter of the margins, we proceeded to complete the resection with a polypectomy snare (▶Fig. 1c,d). Histological analysis of the specimen showed a tumor 6 mm in diameter and 3-mm thick with mucosal involvement and part of the submucosa with tumor-free lateral and vertical margins, confirming a surgical R0 resection (▶Fig. 2). The patient’s postoperative course was uneventful and endoscopic follow-up at 3 months showed a scar with no macroscopic signs of relapse. The patient remains under follow-up at 12 months with no recurrence of her disease (▶Fig. 3).

In expert hands, full-thickness resection is an effective treatment for early lower rectal submucosal carcinoids, achieving curative treatment with a minimal incidence of abdominal complications.

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A carcinoid tumor of 1 cm in diameter is identified in the lower rectum. Resection margins are marked and careful full-thickness wall sectioning is performed, preserving the previously marked margins. After sectioning of the perimeter of the margins has been completed, resection is completed with a polypectomy snare.

Video 1

Competing interests
None

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